



Author index

Volume 87 (1999)

Alpern, E., see Ferguson, C., 57
Aoki, M., see Mieda, M., 223
Argenton, F., Zecchin, E., Bortolussi, M., Early appearance of pancreatic hormone-expressing cells in the zebrafish embryo, 217

Ball, S.G., see Hanley, N.A., 175
Bates, R., see McGrew, L.L., 21
Belmonte, J.C.I., see Tamura, K., 181
Bernhardt, R.R., see Roos, M., 103
Bock, D., see Monaghan, A.P., 45
Bortolussi, M., see Argenton, F., 217

Chan, K.K.L., see Wong, R.L.Y., 185
Chavez, M., Landry, C., Loret, S., Muller, M., Figueroa, J., Peers, B., Rentier-Delrue, F., Rousseau, G.G., Krauskopf, M., Martial, J.A., APH-1, a POU homeobox gene expressed in the salt gland of the crustacean *Artemia franciscana*, 207

Chow, K.L., see Wong, R.L.Y., 185
Ciossek, T., see Rogers, J.H., 119
Clement-Jones, M., see Hanley, N.A., 175
Colas, J.-F., Launay, J.-M., Maroteaux, L., Maternal and zygotic control of serotonin biosynthesis are both necessary for *Drosophila* germband extension, 67

Colas, J.-F., Launay, J.-M., Vonesch, J.-L., Hickel, P., Maroteaux, L., Serotonin synchronises convergent extension of ectoderm with morphogenetic gastrulation movements in *Drosophila*, 77

Cooper, B., see Hardy, S., 199

Deardorff, M.A., Klein, P.S., *Xenopus frizzled-2* is expressed highly in the developing eye, otic vesicle and somites, 229

Delius, H., see Monaghan, A.P., 45
Di Carlo, M., see Romancino, D.P., 3
Diez del Corral, R., see Goriely, A., 203
Dunglison, G.F., Scotting, P.J., Wigmore, P.M., Rat embryonic myoblasts are restricted to forming primary fibres while later myogenic populations are pluripotent, 11

Elvert, G., Lanz, S., Kappel, A., Flamme, I., mRNA cloning and expression studies of the quail homologue of HIF-2 α , 193
Evans, M.J., see Pearce, J.J.H., 189

Fainsod, A., see Marom, K., 33
Ferguson, C., Alpern, E., Miclau, T., Helms, J.A., Does adult fracture repair recapitulate embryonic skeletal formation? 57
Figueroa, J., see Chavez, M., 207
Flamme, I., see Elvert, G., 193

Gertsenstein, M., see Tanaka, M., 129
Gong, Z., see Tan, J.T.T., 165

González-Gaitán, M., Jäckle, H., The range of *spalt*-activating Dpp signaling is reduced in endocytosis-defective *Drosophila* wing discs, 143
Goriely, A., Diez del Corral, R., Storey, K.G., *c-Irx2* expression reveals an early subdivision of the neural plate in the chick embryo, 203

Hagan, D.M., see Hanley, N.A., 175
Hamon, S., see Hardy, S., 199
Hanley, N.A., Ball, S.G., Clement-Jones, M., Hagan, D.M., Strachan, T., Lindsay, S., Robson, S., Ostrer, H., Parker, K.L., Wilson, D.I., Expression of steroidogenic factor 1 and Wilms' tumour 1 during early human gonadal development and sex determination, 175

Hardy, S., Hamon, S., Cooper, B., Mohun, T., Thiébaud, P., Two skeletal α -tropomyosin transcripts with distinct 3'UTR have different temporal and spatial patterns of expression in the striated muscle lineages of *Xenopus laevis*, 199

Harpal, K., see Tanaka, M., 129
Helms, J.A., see Ferguson, C., 57
Hemphälä, J., see Steneberg, P., 153
Hickel, P., see Colas, J.-F., 77
Hirate, Y., see Mieda, M., 223
Hirota, Y., Okabe, M., Imai, T., Kurusu, M., Yamamoto, A., Miyao, S., Nakamura, M., Sawamoto, K., Okano, H., Musashi and Seven in absentia downregulate Tramtrack through distinct mechanisms in *Drosophila* eye development, 93

Imai, T., see Hirota, Y., 93

Jäckle, H., see González-Gaitán, M., 143
Jaenisch, R., see Tanaka, M., 129

Kappel, A., see Elvert, G., 193
Kikuchi, Y., see Mieda, M., 223
Kioschis, P., see Monaghan, A.P., 45
Klein, P.S., see Deardorff, M.A., 229
Korzh, V., see Tan, J.T.T., 165
Krauskopf, M., see Chavez, M., 207
Kurusu, M., see Hirota, Y., 93

Landry, C., see Chavez, M., 207
Lanz, S., see Elvert, G., 193
Launay, J.-M., see Colas, J.-F., 67
Launay, J.-M., see Colas, J.-F., 77
Li, H., Wu, D.K., Sullivan, S.L., Characterization and expression of *sema4g*, a novel member of the semaphorin gene family, 169
Lindsay, S., see Hanley, N.A., 175
Loret, S., see Chavez, M., 207

Marom, K., Fainsod, A., Steinbeisser, H., Patterning of the mesoderm involves several threshold responses to *BMP-4* and *Xwnt-8*, 33

Maroteaux, L., see Colas, J.-F., 67
 Maroteaux, L., see Colas, J.-F., 77
 Martial, J.A., see Chavez, M., 207
 McGrew, L.L., Takemaru, K.-I., Bates, R., Moon, R.T., Direct regulation of the *Xenopus engrailed-2* promoter by the Wnt signaling pathway, and a molecular screen for Wnt-responsive genes, confirm a role for Wnt signaling during neural patterning in *Xenopus*, 21
 Menzel, P., see Rogers, J.H., 119
 Miclau, T., see Ferguson, C., 57
 Mieda, M., Kikuchi, Y., Hirate, Y., Aoki, M., Okamoto, H., Compartmentalized expression of zebrafish *ten-m3* and *ten-m4*, homologues of the *Drosophila ten^m/odd Oz* gene, in the central nervous system, 223
 Miyao, S., see Hirota, Y., 93
 Mohun, T., see Hardy, S., 199
 Monaghan, A.P., Kioschis, P., Wu, W., Zuniga, A., Bock, D., Poustka, A., Delius, H., Niehrs, C., *Dickkopf* genes are co-ordinately expressed in mesodermal lineages, 45
 Moon, R.T., see McGrew, L.L., 21
 Muller, M., see Chavez, M., 207
 Nagy, A., see Tanaka, M., 129
 Nakamura, M., see Hirota, Y., 93
 Niehrs, C., see Monaghan, A.P., 45
 Okabe, M., see Hirota, Y., 93
 Okamoto, H., see Mieda, M., 223
 Okano, H., see Hirota, Y., 93
 Ostrer, H., see Hanley, N.A., 175
 Parker, K.L., see Hanley, N.A., 175
 Pasquale, E.B., see Rogers, J.H., 119
 Pearce, J.J.H., Evans, M.J., *Mml*, a mouse *Mix*-like gene expressed in the primitive streak, 189
 Peers, B., see Chavez, M., 207
 Poustka, A., see Monaghan, A.P., 45
 Puchyr, M., see Tanaka, M., 129
 Rentier-Delrue, F., see Chavez, M., 207
 Robson, S., see Hanley, N.A., 175
 Rogers, J.H., Ciossek, T., Menzel, P., Pasquale, E.B., Eph receptors and ephrins demarcate cerebellar lobules before and during their formation, 119
 Romancino, D.P., Di Carlo, M., Asymmetrical localization and segregation of *Paracentrotus lividus* Bep4 maternal protein, 3
 Roos, M., Schachner, M., Bernhardt, R.R., Zebrafish semaphorin Z1b inhibits growing motor axons in vivo, 103
 Rossant, J., see Tanaka, M., 129
 Rousseau, G.G., see Chavez, M., 207
 Samakovlis, C., see Steneberg, P., 153
 Sawamoto, K., see Hirota, Y., 93
 Schachner, M., see Roos, M., 103
 Scotting, P.J., see Dunglison, G.F., 11
 Sheng, G., Stern, C.D., *Gata2* and *Gata3*: novel markers for early embryonic polarity and for non-neural ectoderm in the chick embryo, 213
 Steinbeisser, H., see Marom, K., 33
 Steneberg, P., Hemphälä, J., Samakovlis, C., Dpp and Notch specify the fusion cell fate in the dorsal branches of the *Drosophila* trachea, 153
 Stern, C.D., see Sheng, G., 213
 Storey, K.G., see Goriely, A., 203
 Strachan, T., see Hanley, N.A., 175
 Sullivan, S.L., see Li, H., 169
 Takemaru, K.-I., see McGrew, L.L., 21
 Tamura, K., Yonei-Tamura, S., Belmonte, J.C.I., Differential expression of *Tbx4* and *Tbx5* in zebrafish fin buds, 181
 Tan, J.T.T., Korzh, V., Gong, Z., Expression of a zebrafish *iroquois* homeobox gene, *Ziro3*, in the midline axial structures and central nervous system, 165
 Tanaka, M., Puchyr, M., Gertsenstein, M., Harpal, K., Jaenisch, R., Rossant, J., Nagy, A., Parental origin-specific expression of *Mash2* is established at the time of implantation with its imprinting mechanism highly resistant to genome-wide demethylation, 129
 Thiébaud, P., see Hardy, S., 199
 Vonesch, J.-L., see Colas, J.-F., 77
 Wigmore, P.M., see Dunglison, G.F., 11
 Wilson, D.I., see Hanley, N.A., 175
 Wong, R.L.Y., Chan, K.K.L., Chow, K.L., Developmental expression of *Mab21l2* during mouse embryogenesis, 185
 Wu, D.K., see Li, H., 169
 Wu, W., see Monaghan, A.P., 45
 Yamamoto, A., see Hirota, Y., 93
 Yonei-Tamura, S., see Tamura, K., 181
 Zecchin, E., see Argenton, F., 217
 Zuniga, A., see Monaghan, A.P., 45



Subject index

Volume 87 (1999)

Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87** 77

Angiogenesis; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Quail embryo; Avian embryo **87** 193

Artemia; Crustacean; Osmoregulation; Homeodomain; POU protein; Cf1-a; POU-M1 **87** 207

Asymmetrical localization; *Paracentrotus lividus*; Maternal protein **87** 3

Avian embryo; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo **87** 193

Axon guidance; Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Repulsion; Motor axon; Overexpression **87** 103

Axon guidance; Semaphorin; Collapsin; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

Basic helix-loop-helix transcription factor; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

Biopterin; Cuticle; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87** 67

Bix; Mouse; *CMIX*; *Mix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87** 189

BMP-4; *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

Brain development; Eph receptors; Ephrins; Cerebellar lobules; Fusion proteins **87** 119

Branch fusion; Dpp; Notch; *Drosophila*; Tracheal development; Cell differentiation; Epithelial branching **87** 153

β -catenin; Wnt; *engrailed-2*; Promoter; LEF; TCF; *Xenopus* **87** 21

Cbfal; Fracture repair; Skeletal development; Chondrocyte; Osteoblast; Perichondrium **87** 57

cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Cell differentiation; Dpp; Notch; *Drosophila*; Tracheal development; Epithelial branching; Branch fusion **87** 153

Cell intercalation; Adherens junction; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87** 77

Cell lineage; Mammalian; Skeletal muscle development **87** 11

Central nervous system; *Xenopus laevis*; Frizzled-2; xfz2; rfz2; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle **87** 229

Cerebellar lobules; Eph receptors; Ephrins; Brain development; Fusion proteins **87** 119

Cerebellum; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate **87** 203

Cerebellum; Chordo-neural hinge; CNS, Interneurons; Motoneurons; Rhombomere 6 **87** 165

Cf1-a; Crustacean; *Artemia*; Osmoregulation; Homeodomain; POU protein; POU-M1 **87** 207

Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Chondrocyte; Cbfal; Fracture repair; Skeletal development; Osteoblast; Perichondrium **87** 57

Chordo-neural hinge; Cerebellum; CNS, Interneurons; Motoneurons; Rhombomere 6 **87** 165

Clathrin-mediated endocytosis; *Drosophila*; Dpp signalling; pattern formation; Wing imaginal disc **87** 143

CMIX; Mouse; *Mix*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87** 189

CNS, Interneurons; Cerebellum; Chordo-neural hinge; Motoneurons; Rhombomere 6 **87** 165

CNS; Zebrafish; *ten-m*; *teneurin*; *ten*^m/*odd Oz* (*odz*); DOC4; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Collapsin; Embryo; Somites; Rhombomeres; Recognition molecules; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

Collapsin; Semaphorin; Axon guidance; Mouse; Sensory ganglion; Retina;

Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

Confocal microscopy; cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; In situ hybridization; Immunohistochemistry **87** 217

Crustacean; *Artemia*; Osmoregulation; Homeodomain; POU protein; Cf1-a; POU-M1 **87** 207

Cuticle; Bipterin; Ectoderm extension; Gastrulation; G protein; Pair rule; Serotonin **87** 67

***Danio rerio*; cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry** **87** 217

Development; cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Dickkopf genes; Mesodermal lineages; *Xenopus* **87** 45

Diencephalon; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Differentiation; cDNA; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; Osteichthyes; *Danio rerio*; Floor plate; Midline; Development; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

***Dnmt1*; *Mash2*; Genomic imprinting; Methylation; Trophoblast; Placenta; Mouse** **87** 129

DOC4; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Dorsal endoderm; Embryo; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Dpp signalling; Clathrin-mediated endocytosis; *Drosophila*; pattern formation; Wing imaginal disc **87** 143

Dpp; Notch; *Drosophila*; Tracheal development; Cell differentiation; Epithelial branching; Branch fusion **87** 153

***Drosophila*; Clathrin-mediated endocytosis; Dpp signalling; pattern formation; Wing imaginal disc** **87** 143

***Drosophila*; Dpp; Notch; Tracheal development; Cell differentiation; Epithelial branching; Branch fusion** **87** 153

***Drosophila*; RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Photoreceptor cell; Eye development** **87** 93

Ectoderm extension; Adherens junction; Cell intercalation; Gastrulation; G protein; Pair rule; Serotonin **87** 77

Ectoderm extension; Bipterin; Cuticle; Gastrulation; G protein; Pair rule; Serotonin **87** 67

EGF-repeat; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; Tenascin **87** 223

Embryo; Chick; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

Embryogenesis; *T-box*; *Tbx4*; *Tbx5*; Zebrafish; Gene expression; Fin bud **87** 181

Embryogenesis; Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Testis; Ovary **87** 175

Embryonic polarity; Gata2; Gata3; Epidermis Non-neural ectoderm; Intermediate mesoderm **87** 213

Endoderm; Mouse; CMIX; Mix; Bix; Homeobox; Extra-embryonic mesoderm; Primitive streak **87** 189

engrailed-2; Wnt; β-catenin; Promoter; LEF; TCF; *Xenopus* **87** 21

EPAS-1; Hypoxia inducible factor; HIF-1α; HIF-2α, HRF; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

Eph receptors; Ephrins; Cerebellar lobules; Brain development; Fusion proteins **87** 119

Ephrins; Eph receptors; Cerebellar lobules; Brain development; Fusion proteins **87** 119

Epidermis; Non-neural ectoderm; Gata2; Gata3; Intermediate mesoderm; Embryonic polarity **87** 213

Epithelial branching; Dpp; Notch; *Drosophila*; Tracheal development; Cell differentiation; Branch fusion **87** 153

Expression pattern; *Mab21l2*; Mouse embryogenesis **87** 185

Expression; *Xenopus laevis*; Frizzled-2; xfz2; rfz2; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Extra-embryonic mesoderm; Mouse; CMIX; Mix; Bix; Homeobox; Endoderm; Primitive streak **87** 189

Eye development; RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Photoreceptor cell; *Drosophila* **87** 93

Eye; *Xenopus laevis*; Frizzled-2; xfz2; rfz2; Expression; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Fin bud; *T-box*; *Tbx4*; *Tbx5*; Zebrafish; Gene expression; Embryogenesis **87** 181

Floor plate; Dorsal endoderm; Insulin; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; *Danio rerio*; Development; Embryo;

Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Fracture repair; Cbfa1; Skeletal development; Chondrocyte; Osteoblast; Perichondrium **87** 57

Frizzled-2; *Xenopus laevis*; xfz2; rfz2; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Fusion proteins; Eph receptors; Ephrins; Cerebellar lobules; Brain development **87** 119

G protein; Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; Pair rule; Serotonin **87** 77

G protein; Biopterin; Cuticle; Ectoderm extension; Gastrulation; Pair rule; Serotonin **87** 67

Gastrulation; Adherens junction; Cell intercalation; Ectoderm extension; G protein; Pair rule; Serotonin **87** 77

Gastrulation; Biopterin; Cuticle; Ectoderm extension; G protein; Pair rule; Serotonin **87** 67

Gata2; Gata3; Epidermis Non-neural ectoderm; Intermediate mesoderm; Embryonic polarity **87** 213

Gata3; Gata2; Epidermis Non-neural ectoderm; Intermediate mesoderm; Embryonic polarity **87** 213

Gene expression; *T-box*; *Tbx4*; *Tbx5*; Zebrafish; Embryogenesis; Fin bud **87** 181

Genomic imprinting; *Mash2*; Methylation; *Dnmt1*; Trophoblast; Placenta; Mouse **87** 129

Glucagon; Embryo; Dorsal endoderm; Insulin; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Gradient; *Xenopus*; Mesoderm patterning; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

HIF-1 α ; Hypoxia inducible factor; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

HIF-2 α , HRF; Hypoxia inducible factor; HIF-1 α ; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

Hindbrain; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Homeobox; Mouse; *CMIX*; *Mix*; *Bix*; Endoderm; Extra-embryonic mesoderm; Primitive streak **87** 189

Homeodomain; Chick; Embryo; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Homeodomain; Crustacean; *Artemia*; Osmoregulation; POU protein; Cf1-a; POU-M1 **87** 207

Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

Immunohistochemistry; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Insulin **87** 217

Inner ear; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

In situ hybridization; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Insulin; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217

Intermediate mesoderm; Gata2; Gata3; Epidermis Non-neural ectoderm; Embryonic polarity **87** 213

Iroquois; Chick; Embryo; Homeodomain; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Islet; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Midline; *Danio rerio*; Differentiation; Pancreas; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Isthmus; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

LEF; Wnt; *engrailed-2*; β -catenin; Promoter; TCF; *Xenopus* **87** 21

Mab21I2; Expression pattern; Mouse embryogenesis **87** 185

Mammalian; Cell lineage; Skeletal muscle development **87** 11

Mash2; Genomic imprinting; Methylation; *Dnmt1*; Trophoblast; Placenta; Mouse **87** 129

Maternal protein; Asymmetrical localization; *Paracentrotus lividus* **87** 3

Mesencephalon; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Mesoderm patterning; *Xenopus*; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

Mesodermal lineages; *Dickkopf* genes; *Xenopus* **87** 45

Methylation; *Mash2*; Genomic imprinting; *Dnmt1*; Trophoblast; Placenta; Mouse **87** 129

Midbrain/hindbrain boundary; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; EGF-repeat; Tenascin **87** 223

Midbrain; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Midline; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Osteichthyes; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Pancreas; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Mix; Mouse; *CMIX*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87** 189

Motoneurons; Cerebellum; Chordo-neural hinge; CNS, Interneurons; Rhombomere 6 **87** 165

Motor axon; Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Overexpression **87** 103

Mouse chromosome; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ 19 **87** 169

Mouse embryogenesis; *Mab21l2*; Expression pattern **87** 185

Mouse; *CMIX*; *Mix*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm; Primitive streak **87** 189

Mouse; *Mash2*; Genomic imprinting; Methylation; *Dnmt1*; Trophoblast; Placenta **87** 129

Mouse; Semaphorin; Collapsin; Axon guidance; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

Musashi; RNA-binding protein; Tramtrack; Seven in absentia; Photoreceptor cell; Eye development; *Drosophila* **87** 93

Myf-5; *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Xvent-1* **87** 33

Neural plate; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Cerebellum **87** 203

Notch; Dpp; *Drosophila*; Tracheal development; Cell differentiation; Epithelial branching; Branch fusion **87** 153

Olfactory system; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Vomeronasal organ; Mouse chromosome 19 **87** 169

Osmoregulation; Crustacean; *Artemia*; Homeodomain; POU protein; Cf1-a; POU-M1 **87** 207

Osteichthyes; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Pancreas; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Osteoblast; Cbfa1; Fracture repair; Skeletal development; Chondrocyte; Perichondrium **87** 57

Otic vesicle; *Xenopus laevis*; Frizzled-2; xfz2; rfz2; Expression; Eye; Somite; Presomitic mesoderm; Central nervous system **87** 229

Otic vesicle; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Rhombomere; Neural plate; Cerebellum **87** 203

Ovary; Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Embryogenesis; Testis **87** 175

Overexpression; Embryo; Somites; Rhombomeres; Recognition mole- cules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon **87** 103

Pair rule; Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; G protein; Serotonin **87** 77

Pair rule; Bipterin; Cuticle; Ectoderm extension; Gastrulation; G protein; Serotonin **87** 67

Pancreas; Embryo; Dorsal endoderm; Glucagon; Somatostatin; *Pdx1*; Zebrafish; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Osteichthyes; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Paracentrotus lividus; Asymmetrical localization; Maternal protein **87** 3

PAS domain protein; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Quail embryo; Avian embryo **87** 193

pattern formation; Clathrin-mediated endocytosis; *Drosophila*; Dpp signalling; Wing imaginal disc **87** 143

Pdx1; Zebrafish; Embryo; Dorsal endoderm; Insulin; Glucagon; Somatostatin; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Osteichthyes; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Perichondrium; Cbfa1; Fracture repair; Skeletal development; Chondrocyte; Osteoblast **87** 57

Photoreceptor cell; RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Eye development; *Drosophila* **87** 93

Placenta; *Mash2*; Genomic imprinting; Methylation; *Dnmt1*; Trophoblast; Mouse **87** 129

POU protein; Crustacean; *Artemia*; Osmoregulation; Homeodomain; Cf1-a; POU-M1 **87** 207

POU-M1; Crustacean; *Artemia*; Osmoregulation; Homeodomain; POU protein; Cf1-a **87** 207

Pre-pattern; Chick; Embryo; Homeodomain; Iroquois; Hindbrain; Midbrain; Isthmus; Rhombomere; Otic vesicle; Neural plate; Cerebellum **87** 203

Presomitic mesoderm; *Xenopus laevis*; Frizzled-2; xfz2; rfz2; Expression; Eye; Somite; Otic vesicle; Central nervous system **87** 229

Primitive streak; Mouse; *CMIX*; *Mix*; *Bix*; Homeobox; Endoderm; Extra-embryonic mesoderm **87** 189

Promoter; Wnt; *engrailed-2*; β -catenin; LEF; TCF; *Xenopus* **87** 21

Quail embryo; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Vasculogenesis; Angiogenesis; Avian embryo **87** 193

Recognition molecules; Embryo; Somites; Rhombomeres; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

Repulsion; Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Motor axon; Overexpression **87** 103

Retina; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

rfz2; *Xenopus laevis*; Frizzled-2; xfz2; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Rhombomere 6; Cerebellum; Chordo-neural hinge; CNS, Interneurons; Motoneurons **87** 165

Rhombomere; Chick; Embryo; Homeodomain; Iroquois; Pre-pattern; Hindbrain; Midbrain; Isthmus; Otic vesicle; Neural plate; Cerebellum **87** 203

Rhombomere; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Rhombomeres; Embryo; Somites; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

RNA-binding protein; Musashi; Tramtrack; Seven in absentia; Photoreceptor cell; Eye development; *Drosophila* **87** 93

Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

Semaphorin; Embryo; Somites; Rhombomeres; Recognition molecules; Collapsin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

Sensory ganglion; Semaphorin; Collapsin; Axon guidance; Mouse; Retina; Inner ear; Olfactory system; Vomeronasal organ; Mouse chromosome 19 **87** 169

Serotonin; Adherens junction; Cell intercalation; Ectoderm extension; Gastrulation; G protein; Pair rule **87** 77

Serotonin; Bioperin; Cuticle; Ectoderm extension; Gastrulation; G protein; Pair rule **87** 67

Seven in absentia; RNA-binding protein; Musashi; Tramtrack; Photoreceptor cell; Eye development; *Drosophila* **87** 93

Sex determination; Human; Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Embryogenesis; Testis; Ovary **87** 175

Sizzled; *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Myf-5*; *Xvent-1* **87** 33

Skeletal development; Cbfa1; Fracture repair; Chondrocyte; Osteoblast; Perichondrium **87** 57

Skeletal muscle development; Cell lineage; Mammalian **87** 11

Skeletal muscle isoform; α -Tropomyosin gene; XTM α 2; XTM α 7 **87** 199

Somatostatin; Embryo; Dorsal endoderm; Insulin; Glucagon; *Pdx1*; Zebrafish; cDNA; Midline; Development; Floor plate; Islet; *Danio rerio*; Differentiation; Osteichthyes; In situ hybridization; Confocal microscopy; Insulin; Immunohistochemistry **87** 217

Somite; *Xenopus laevis*; Frizzled-2; xfz2; rfz2; Expression; Eye; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Somites; Embryo; Rhombomeres; Recognition molecules; Collapsin; Semaphorin; Axon guidance; Repulsion; Motor axon; Overexpression **87** 103

Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Embryogenesis; Testis; Ovary **87** 175

T-box; *Tbx4*; *Tbx5*; Zebrafish; Gene expression; Embryogenesis; Fin bud **87** 181

Tbx4; *T-box*; *Tbx5*; Zebrafish; Gene expression; Embryogenesis; Fin bud **87** 181

Tbx5; *T-box*; *Tbx4*; Zebrafish; Gene expression; Embryogenesis; Fin bud **87** 181

TCF; Wnt; *engrailed-2*; β -catenin; Promoter; LEF; *Xenopus* **87** 21

Tenascin; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

ten^m/odd Oz (odz); Zebrafish; *ten-m*; *teneurin*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

teneurin; Zebrafish; *ten-m*; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

ten-m; Zebrafish; *teneurin*; *ten^m/odd Oz (odz)*; DOC4; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; Tenascin **87** 223

Testis; Steroidogenic factor 1 (SF-1); Wilms' tumour 1 (WT1); Sex determination, Human; Embryogenesis; Ovary **87** 175

Tracheal development; Dpp; Notch; *Drosophila*; Cell differentiation; Epithelial branching; Branch fusion **87** 153

Tramtrack; RNA-binding protein; Musashi; Seven in absentia; Photoreceptor cell; Eye development; *Drosophila* **87** 93

α -Tropomyosin gene; Skeletal muscle isoform; XTM α 2; XTM α 7 **87** 199

Trophoblast; *Mash2*; Genomic imprinting; Methylation; *Dnmt1*; Placenta; Mouse **87** 129

tumour 1 (WT1); Steroidogenic factor 1 (SF-1); Wilms' Sex determination, Human; Embryogenesis; Testis; Ovary **87** 175

Vasculogenesis; Hypoxia inducible factor; HIF-1 α ; HIF-2 α , HRF; EPAS-1; PAS domain protein; Basic helix-loop-helix transcription factor; Angiogenesis; Quail embryo; Avian embryo **87** 193

Vomeronasal organ; Semaphorin; Collapsin; Axon guidance; Mouse; Sensory ganglion; Retina; Inner ear; Olfactory system; Mouse chromosome 19 **87** 169

Wilms'; Steroidogenic factor 1 (SF-1); tumour 1 (WT1); Sex determination, Human; Embryogenesis; Testis; Ovary **87** 175

Wing imaginal disc; Clathrin-mediated endocytosis; *Drosophila*; Dpp signalling; pattern formation **87** 143

Wnt; *engrailed-2*; β -catenin; Promoter; LEF; TCF; *Xenopus* **87** 21

Xenopus laevis; Frizzled-2; *xfz2*; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

Xenopus; *Dickkopf* genes; Mesodermal lineages **87** 45

Xenopus; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

Xenopus; Wnt; *engrailed-2*; β -catenin; Promoter; LEF; TCF **87** 21

xfz2; *Xenopus laevis*; Frizzled-2; *rfz2*; Expression; Eye; Somite; Presomitic mesoderm; Otic vesicle; Central nervous system **87** 229

XTM α 2; α -Tropomyosin gene; Skeletal muscle isoform; *XTM α 7* **87** 199

XTM α 7; α -Tropomyosin gene; Skeletal muscle isoform; *XTM α 2* **87** 199

Xvent-1; *Xenopus*; Mesoderm patterning; Gradient; *Xwnt-8*; *BMP-4*; *Sizzled*; *Myf-5* **87** 33

Xwnt-8; *Xenopus*; Mesoderm patterning; Gradient; *BMP-4*; *Sizzled*; *Myf-5*; *Xvent-1* **87** 33

Zebrafish; *T-box*; *Tbx4*; *Tbx5*; Gene expression; Embryogenesis; Fin bud **87** 181

Zebrafish; *ten-m*; *teneurin*; *ten*^m/*odd Oz (odz)*; *DOC4*; CNS; Rhombomere; Mesencephalon; Diencephalon; Midbrain/hindbrain boundary; EGF-repeat; *Tenascin* **87** 223

Zebrafish; Embryo; Dorsal endoderm; Insulin; Somatostatin; *Pdx1*; Glucagon; cDNA; Osteichthyes; *Danio rerio*; Development; Floor plate; Midline; Differentiation; Pancreas; Islet; Confocal microscopy; In situ hybridization; Immunohistochemistry **87** 217